

The Amendments to the Specification

Please replace paragraph [80] at page 10 with the following paragraph:

[80] As shown in FIG. 1, ~~the oil/fat, alcohol, and alkyl ester, as the reactant, the oil/fat and alcohol, as the reactants, and alkyl ester as a surfactant~~ are fed into a first mixer 2, and then reacted with each other in the presence of the catalyst in the PFR 3. After the completion of the reaction, glycerine is separated from the resulting product in a separator 4, and alkyl ester is transferred into a first storage tank 5.

Please replace paragraph [96] at page 13 with the following paragraph:

[96] The insufficient contact between the solid acidic catalyst and the reactants may be overcome by adding alkyl ester to the reactants. In other words, when alkyl ester is added to the pre-esterification process of the free fatty acid, a contact efficiency between the free fatty acid, alcohol and the catalyst is improved to enable the free fatty acid to be easily converted into the bio-diesel oil. The resulting alkyl ester acting as the bio-diesel oil thus converted contributes to improving the contact efficiency between the ~~free fatty acid~~ oil/fat and alcohol in the transesterification reaction.

Please replace paragraphs [116] and [117] at page 16 with the following paragraphs:

[116] (2) ~~[[10 %]]~~ 20% methyl ester (ME) plot

[117] 200 g of refined soybean oil, 29.4 g of methanol (a molar ratio of methanol and the refined soybean oil is 4:1), 1 % of potassium hydroxide based on the weight of the refined soybean oil, and ~~[[10 %]]~~ 20 % of methyl ester based on the weight of the refined soybean oil were fed into a batch reactor, and then reacted with each other at 80 °C while being agitated at an agitation speed of 50 rpm for 30 min to produce methyl ester as a bio-diesel oil.